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HYBRIDIZATION IN U. S. TREEFROGS OF THE GENUS *HYLA*

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The experimental combination of anuran gametes has proved to be an important source of information in investigation of species relationships and of post-mating reproductive isolation. The purpose of this report is to present a list of recent hybrid crosses involving U. S. species of the genus *Hyla*. Only those crosses that have been attempted since the appearance of Moore's (1955) review are included here.

For most hybrid combinations, the terminology of the latest developmental stage reached is that of the author cited. The twelve crosses for which there are no author citations were performed by us. In describing our results, the term "adult" is used if the hybrid attained a size as large as sexually mature frogs of the smallest parental species. Crosses reported by Johnson (1959) between the call races of *Hyla versicolor* are not included in this list since their taxonomic status is still uncertain.

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FEMALE	MALE	LATEST STAGE REACHED	AUTHORS
Gastrophryne carolinensis	*Hyla squirella*	no fertilization	Volpe, 1956
Hyla arenicolor	*Hyla femoralis*	metamorphosed, nearly grown	W. F. Blair, 1958
Hyla arenicolor	*Hyla avivoca*	metamorphosed, nearly grown	W. F. Blair, 1958
Hyla arenicolor	*Hyla versicolor*	metamorphosed, nearly grown	W. F. Blair, 1958

AUG 15 1961

FEMALE	MALE	LATEST STAGE REACHED	AUTHORS
Hyla arenicolor	*Hyla regilla*	yolk plug	W. F. Blair, 1958
Hyla avivoca	*Hyla versicolor*	normal larvae, through metamorphosis	Mecham, 1960a
Hyla avivoca	*Hyla femoralis*	not stated	Mecham, 1960a
Hyla cinerea	*Hyla avivoca*	adult	
Hyla cinerea	*Hyla gratiosa*	adult	
Hyla cinerea	*Hyla gratiosa*	normal larvae, through metamorphosis	Mecham, 1960b
Hyla cinerea	Natural hybrid (*H. cinerea–H. gratiosa*)	normal larvae, through metamorphosis	Mecham, 1960b
Natural hybrid (*H. cinerea–H. gratiosa*)	*Hyla cinerea*	normal larvae, through metamorphosis	Mecham, 1960b
Natural hybrid (*H. cinerea–H. gratiosa*)	Natural hybrid (*H. cinerea–H. gratiosa*)	normal larvae, through metamorphosis	Mecham, 1960b
Hyla cinerea	*Hyla squirella*	adult	
Hyla cinerea	*Hyla versicolor*	adult	
Hyla cinerea	*Hyla crucifer*	tadpole	
Hyla cinerea	*Hyla baudini*	tadpole	
Hyla cinerea	*Hyla raniformis*	tadpole	
Hyla cinerea	*Pseudacris clarki*	tadpole	
Hyla cinerea	*Acris crepitans*	tadpole	
Hyla crucifer	*Pseudacris streckeri*	young frog	Mecham, 1957
Hyla crucifer	*Pseudacris nigrita*	cleavage, no normal larvae	Mecham, 1957
Hyla crucifer	*Pseudacris nigrita*	young frog	Crenshaw, 1958
Hyla crucifer	*Pseudacris nigrita*	young frog	Gosner, 1956
Hyla gratiosa	*Hyla versicolor*	hatched	W. F. Blair, 1958
Hyla gratiosa	*Hyla cinerea*	maturity	W. F. Blair, 1958
Hyla gratiosa	*Hyla cinerea*	normal larvae, through metamorphosis	Mecham, 1960b
Hyla gratiosa	Natural hybrid (*H. cinerea–H. gratiosa*)	normal larvae, through metamorphosis	Mecham, 1960b
Hyla gratiosa	*Hyla arborea*	tadpole	W. F. Blair, 1958

FEMALE	MALE	LATEST STAGE REACHED	AUTHORS
Hyla squirella	*Gastrophryne carolinensis*	no fertilization	Volpe, 1956
Hyla versicolor	*Hyla baudini*	adult	Pyburn and Kennedy, 1960
Hyla versicolor	*Hyla squirella*	adult	Pyburn and Kennedy, 1960
Hyla versicolor	*Hyla avivoca*	normal larvae, through metamorphosis	Mecham, 1960a
Hyla versicolor	*Hyla cinerea*	young tadpole	Pyburn and Kennedy, 1960
Hyla versicolor	*Hyla avivoca*	adult	
Hyla versicolor	F_1 (♀ *H. versicolor* × ♂ *H. avivoca*)	adult	
Hyla versicolor	Natural hybrid (*H. avivoca–H. versicolor*)	normal larvae, through metamorphosis	Mecham, 1960a
Hyla versicolor	*Hyla femoralis*	adult	Pyburn, 1960
Hyla versicolor	F_1 (♀ *H. versicolor* × ♂ *H. femoralis*)	adult	
Hyla versicolor	*Pseudacris clarki*	adult	Pyburn and Kennedy, 1960
Hyla versicolor	*Bufo compactilis*	tail bud	Pyburn and Kennedy, 1960
Hyla versicolor	*Gastrophryne olivacea*	blastula	Pyburn and Kennedy, 1960
Pseudacris nigrita	*Hyla crucifer*	adult	Crenshaw, 1958
Pseudacris nigrita	F_1 (♀ *P. nigrita* × ♂ *Hyla crucifer*)	tail bud	Crenshaw, 1958
Pseudacris nigrita	*Hyla crucifer*	young frog	Gosner, 1956
Pseudacris streckeri	*Hyla crucifer*	young tadpole	Mecham, 1957

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